

Table 1 – Total Construction-Related Fuel Consumption

First Industrial Warehouse at Wilson Avenue

Fuel	Consumption	
Diesel		
On-Road Construction Trips ¹	20,212	Gallons
Off-Road Construction Equipment ²	36,268	Gallons
Diesel Total	56,480	Gallons
Gasoline		
On-Road Construction Trips ¹	34,904	Gallons
Off-Road Construction Equipment ³	-	Gallons
Gasoline Total	34,904	Gallons

Notes:

1. On-road mobile source fuel use based on vehicle miles traveled (VMT) from CalEEMod for construction in 2020 and fleet-average fuel consumption in gallons per mile from EMFAC2017 web based data for Riverside County. See Table 2 for calculation details.
2. Off-road mobile source fuel usage based on a fuel usage rate of 0.05 gallons of diesel per horsepower (HP)-hour, based on SCAQMD CEQA Air Quality Handbook, Table A9-3E.
3. All emissions from off-road construction equipment were assumed to be diesel.

Table 2 – On-Road Construction Trip Estimates

First Industrial Warehouse at Wilson Avenue

Trip Type	Trips	Trip length	Vehicle Miles Traveled (VMT)	Fuel Efficiency	Annual Fuel Usage ¹	
	(trips)	(miles)	(miles)	(mpg)	(Fuel)	(gallon)
Worker ^{2,3}	64,664	14.7	950,561	26.6	Gasoline	34,904
Vendor ⁴	24,345	6.9	167,981	8.7	Diesel	20,212
Hauling ⁵	0	20	0	6.9	Diesel	0

Notes:

1. On-road mobile source fuel use based on vehicle miles traveled (VMT) from CalEEMod output (See Air Quality/GHG Memo) for construction and fleet-average fuel consumption in gallons per mile from EMFAC2017 web based data for 2020 in Riverside County.
2. Worker trips were assumed to be 100% gasoline powered vehicles.
3. Per CalEEMod, worker Trips were assumed to be 50% LDA, 25% LDT1, and 25% LDT2.
4. Vendor trips were assumed to be 50% MHDT and 50% HHDT, split evenly between the MHDT and HHDT construction categories.
5. Per CalEEMod, hauling trips were assumed to be 100% HHDT.

Table 3 – Annual Energy Consumption from Operation

First Industrial Warehouse at Wilson Avenue

Fuel Type	Energy Consumption	Units	Natural Gas	Units
Electricity				
Building ¹	847,343	kWh/year	615,553	kBTU/yr
Water ²	72,336	kWh/year		
Total Electricity	919,679	kWh/year		
Mobile³				
Gasoline	136,506	gallons/year		
Diesel	222,400	gallons/year		

Notes:

1. Building electricity use from CalEEMod output (See Air Quality/GHG Memo).
2. Calculated based on the Project's annual water consumption using CalEEMod SCAQMD energy intensity of 0.0111 kWhr per gallon for supply, distribution, and treatment of water and .013021 kWhr per gallon for supply, distribution, and treatment of water and wastewater treatment.
3. Mobile source fuel use based on annual vehicle miles traveled (VMT) from CalEEMod output for operational year 2021 and fleet-average fuel consumption in gallons per mile from EMFAC2017 web based data in Riverside County.